(19) World Intellectual Property Organization

International Bureau



. | 1881 | 1888 | 1888 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 | 1884 |

(43) International Publication Date 22 September 2005 (22.09.2005)

PCT

(10) International Publication Number WO 2005/087076 A1

(51) International Patent Classification⁷: A47L 13/20, 13/24

(21) International Application Number:

PCT/US2005/005818

(22) International Filing Date: 23 February 2005 (23.02.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(**30**) Priority Data: 0404524.1

1 March 2004 (01.03.2004) G

(71) Applicant (for all designated States except US): 3M INNOVATIVE PROPERTIES COMPANY [US/US]; 3M Center, Post Office Box 33427, Saint Paul, Minnesota 55133-3427 (US).

(72) Inventors; and

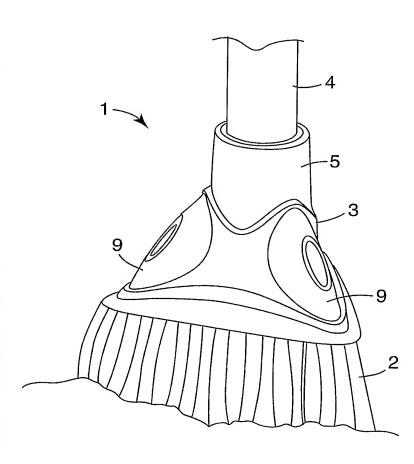
(75) Inventors/Applicants (for US only): CABRERO GOMEZ, Estrella [ES/ES]; Juan Ignacio Luca de Tena

19-25, E-28027 Madrid (ES). MARTIN RIVERA, Carmen [ES/ES]; Ctra de Vicalvaro a Mejorada del Campo, Km 12, 400 Rivas Vaciamadrid, E-28529 Madrid (ES). ECHEVERRIA, Carmen [ES/ES]; Juan Ignacio Luca de Tena, 19-25, E-28027 Madrid (ES). BEOLCHI, Maurizio [IT/IT]; Via San Bovio, 3 - Loc San Felice, Segrate, I-20090 Milano (IT). CORSI, Christophe C. [FR/FR]; Boulevard de L'Oise, F-95006 Cergy (FR). FREYERMUTH, Patrice P. [FR/FR]; Boulevard de L'Oise, F-95006 Cergy (FR). SOYER, Eric A. [FR/FR]; Avenue Boule, Boite postale 28, F-95250 Beauchamp (FR). PORCINI, Mauro [IT/IT]; via San Bovio 3, Segrate, I-20090 Milano (IT). THORSTEINSSON, Sigurdur [IS/IT]; via C. Crivelli 15/1, I-20122 Milano (IT). NEW-BOULD, Peter [GB/IT]; Via C. Crivelli 15/1, I-20122 Milano (IT).

(74) Agents: PATCHETT, David B., et al.; Office of Intellectual Property Counsel, Post Office Box 33427, Saint Paul, Minnesota 55133-3427 (US).

[Continued on next page]

(54) Title: IMPROVED HEAD FOR A STRIP MOP



(57) Abstract: A head (1) for a strip mop comprises a hollow dome-shaped body (3) which is attachable at its top to one end of an elongate mop handle (4). Web material is secured within the body (3) so that a portion hangs down from the base of the dome-shaped body to provide the cleaning substrate (2) of the mop. To facilitate access to confined areas of a surface that is being cleaned, such as corners, the base of the dome-shaped body (3) of the mop head has the general form of an equilateral triangle. A spacer (17, Fig. 4) is provided between two adjacent layers of the web material within the dome-shaped body, to enhance the volume of the cleaning substrate (2); and a peripheral skirt (8) of a more resilient material is provided at the base of the wall of the dome-shaped body (3) to reduce the risk of damage to surfaces that might be impacted by the mop head (1) when in use.

WO 2005/087076 A1

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

ZM, ZW.

GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.